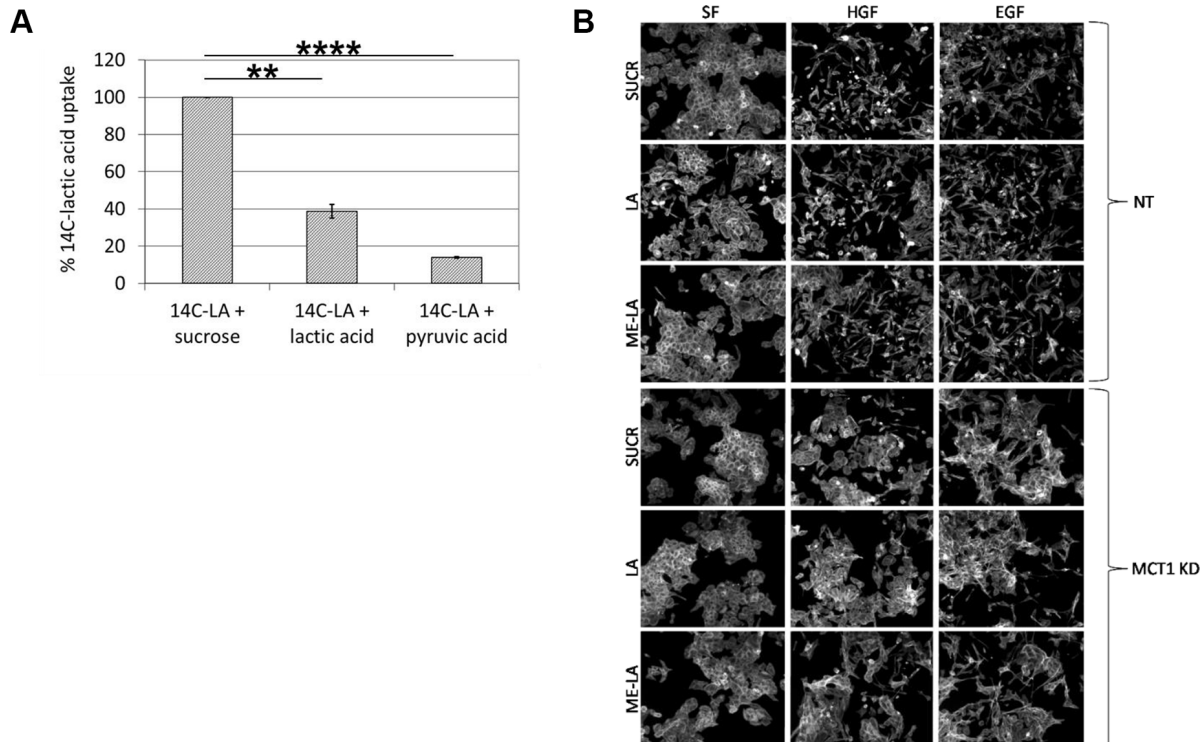
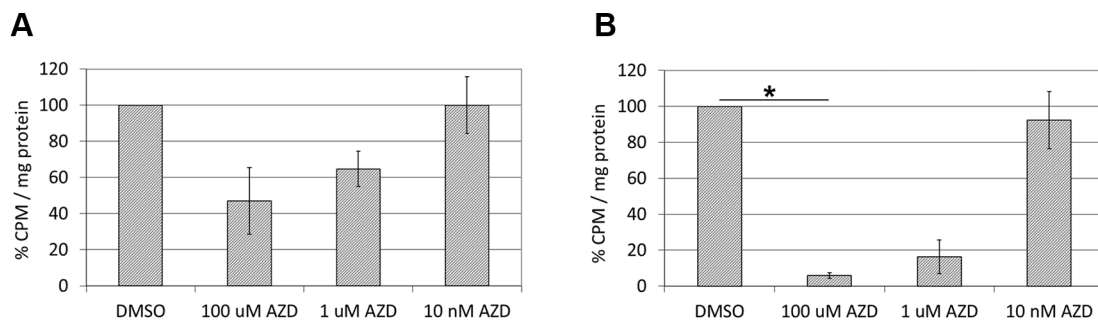


Monocarboxylate transporter 1 contributes to growth factor-induced tumor cell migration independent of transporter activity

Supplementary Materials



Supplementary Figure S1: The substrates of MCT1 are not sufficient to rescue HGF- and EGF-induced cell motility in MCT1 KD cells. (A) DU145 cells were incubated for 1 hour in HEPES buffer containing $0.2 \mu\text{Ci/mL}$ ($1.34 \mu\text{M}$) ^{14}C -lactic acid with 40 mM sucrose, 40 mM lactic acid, or 40 mM pyruvic acid. Data are shown as percent ^{14}C -lactic acid uptake normalized to control set at 100%; $n = 3$. (B) DU145 NT and MCT1 KD cells were treated in serum-free (SF) media with 40 mM sucrose (SUCR), 40 mM lactic acid (LA), or 40 mM methyl-lactic acid (ME-LA) with or without 33 ng/ml HGF or 100 ng/ml EGF overnight. Cells were fixed and stained for actin. Representative $10\times$ images are shown. Quantitative data represent mean \pm SEM. $**p < 0.01$, $****p < 0.0001$.



Supplementary Figure S2: AZD3965-mediated inhibition of lactic acid uptake through MCT1 is partially obscured in cells expressing MCT4. (A) DU145 (MCT1^+ , MCT4^+) and (B) Raji (MCT1^+ , MCT4^-) cells were treated with 100 μM , 1 μM , or 10 nM AZD3965 in HEPES buffer containing ^{14}C -lactic acid for the indicated times; $n = 3$. $*p < 0.05$.